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Joint Photographic Intelligence Report

LOCATION AND DESCRIPTION OF PROBABLE FLIM FLAM STATION NO 6 KHUTOR, USSR

ARMY NAVY CIA NSA

PIC/JR-22/60
NOVEMBER 1960

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LOCATION AND DESCRIPTION OF PROBABLE FLIM FLAM STATION NO 6

KHUTOR, USSR

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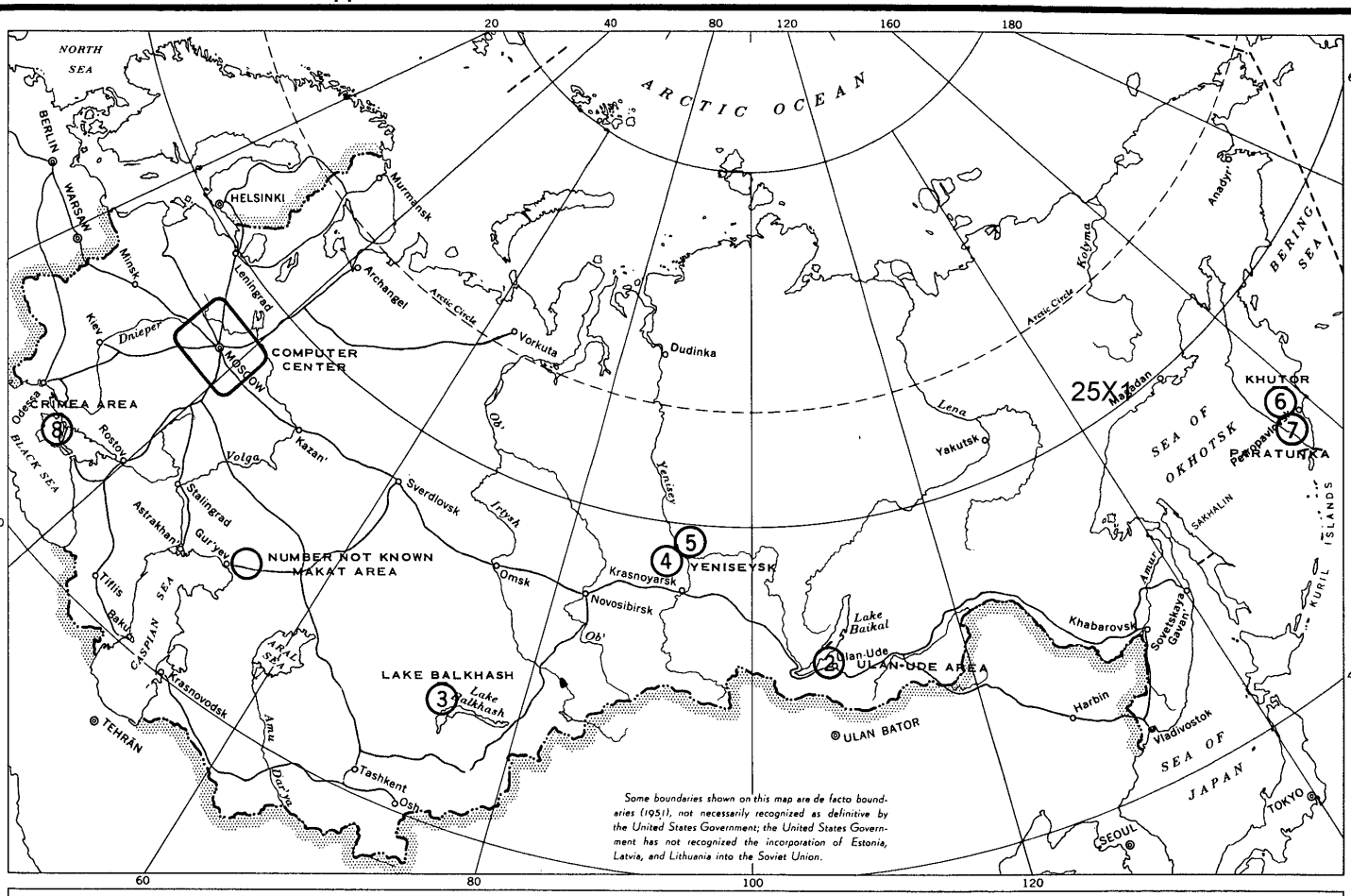
PREFACE

This joint report, based on communications and photographic intelligence, has been prepared by the Army, Navy, Central Intelligence Agency, and National Security Agency in answer to NSA Requirement [redacted] 25X
X [redacted] nd general requirements of the Army, Navy, and CIA.



UNION OF SOVIET SOCIALIST REPUBLICS

FIGURE 1. [redacted]-DERIVED LOCATIONS OF USSR FLIM FLAM STATIONS. The numbers are the Soviet designations. These stations report to the Computer Center in Moscow.

Scale 1:36,700,000

0 250 500 1000 1500 2000 Statute Miles

0 250 500 1000 1500 2000 Kilometers

CIA/PIC G-3657

12040 10-51

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SUMMARY

Correlation of [redacted] evidence indicates that FLIM FLAM Station No 6 is probably the facility located at 53-05N 158-20E, 3.5 nautical miles (nm) south of Khutor and 12 nm west-northwest of Petropavlovsk, USSR (see Figure 1). 25X1

INTRODUCTION

Analysis of FLIM FLAM tracking data, combined with other [redacted] 25X1 evidence, indicates that FLIM FLAM Station No 6 is located in the vicinity of Khutor (53-06N 158-21E), approximately 13 nm north of Petropavlovsk, Kamchatka, USSR. 1/ This area is covered by [redacted] 25X1 photography. Photographic limitations preclude an independent identification of a FLIM FLAM station. However, there is excellent [redacted] 25X1 photography of FLIM FLAM Station No 3, near Sary Shagan, west of Lake Balkhash (see Figure 2). In comparing this photography with that of the Khutor area, a site was noted, at 53-05N 158-20E, near Khutor, which appears to have features similar to those at Station No 3. No other installation resembling Station No 3 was observed within a 15-nm radius of Khutor. A KRUG site, with its normal support area, is located within one nm of this site.

COMPARISON OF SARY SHAGAN AND KHUTOR SITES

The site at Station No 3 near Sary Shagan, which is labeled "Site A" in CIA/PIC/JR-16/60, contains a phase-measuring station, a probable instrumentation area, four receiving rhombic antennas, a control area, and a support area. 2/ The site near Khutor exhibits enough similarities to Site A to be considered probably as FLIM FLAM Station No 6 (see

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25X1

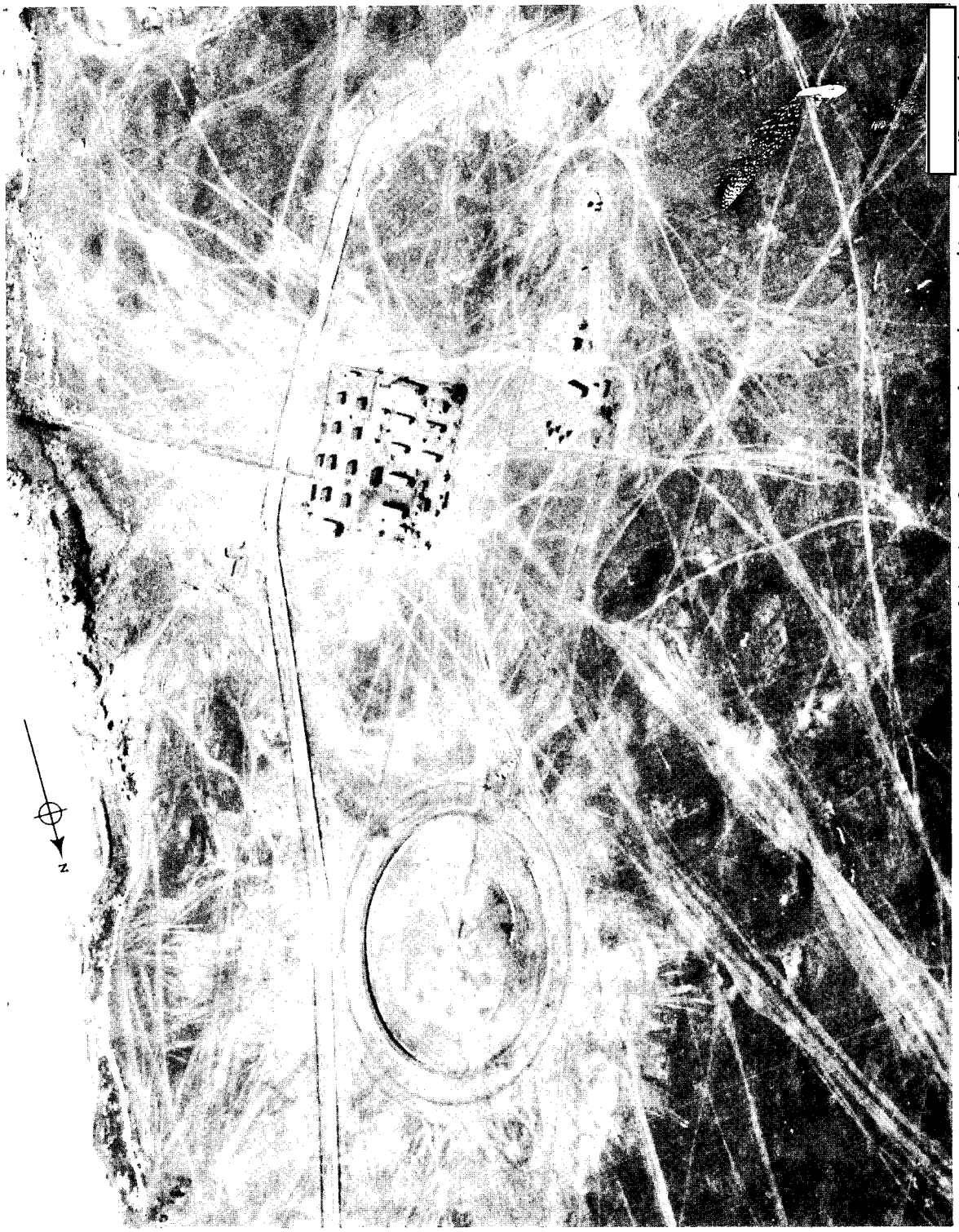

FIGURE 2. FLIM FLAM STATION NO 3, SARY SHAGAN. Features of the Khutor Site are similar to those at this station. (Date of photography,

25X1

25X1

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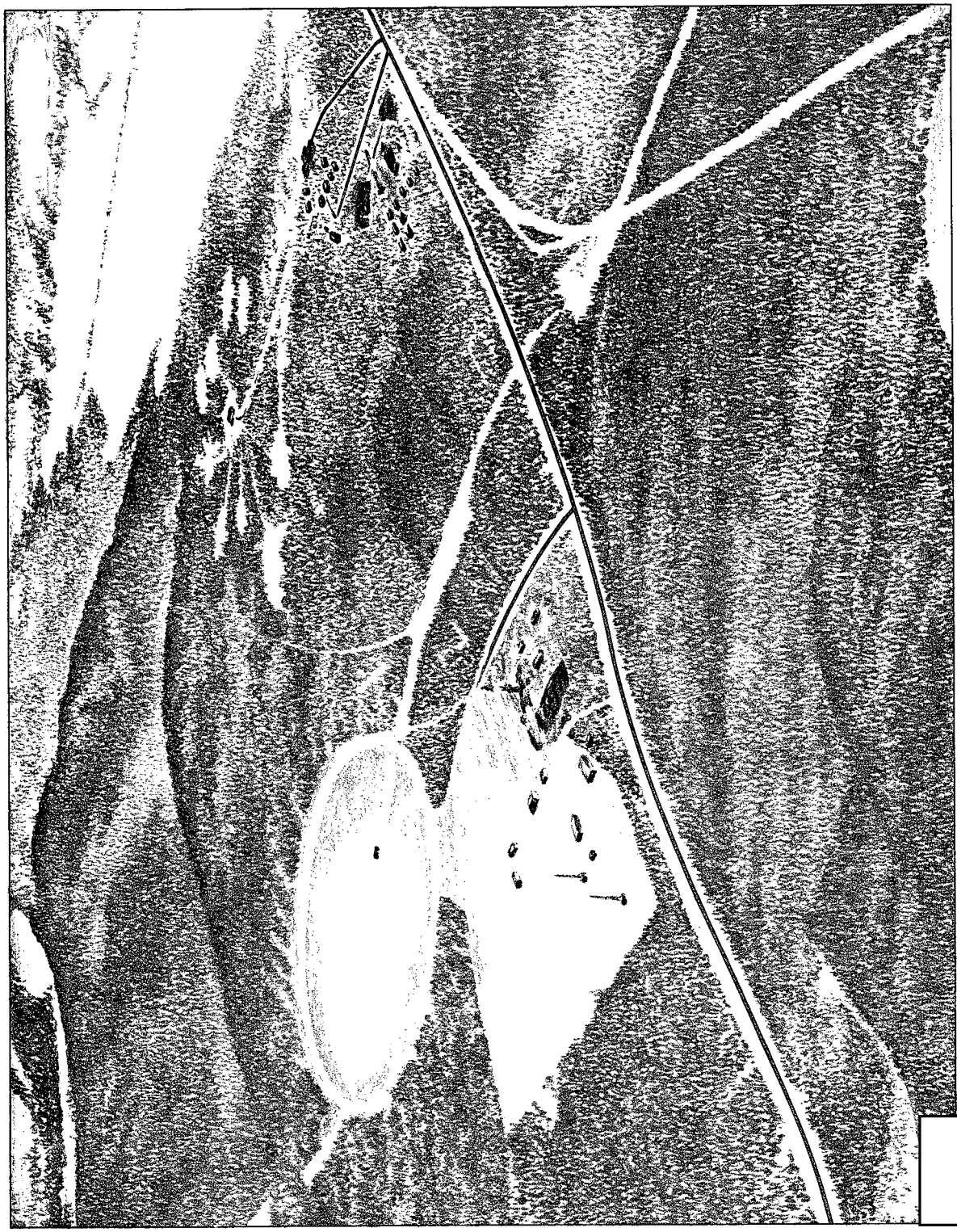

25X1

25X1

FIGURE 3. PROBABLE FLIM FLAM STATION NO 6, KHUTOR. (Based on photography of

TABLE OF COMPARISONS BETWEEN SARY SHAGAN AND KHUTOR SITES

Features of Station No 3	Features of Probable Station No 6
1. Phase-measuring station	1. Circular clearing
Circular fence, 1,250' dia	Clearing, approx. 1,150' dia
Circular road, 1,005' dia	Circular road, approx. 1,050' dia
Off-center bunker, 70' x 45'	Off-center structure, 50' long
Access road to bunker	Access road to structure
Cruciform pattern	Photography precludes identification
2. Support, control, and probable instrumentation areas, 1,300' x 1,300' overall	2. Rectangular clearing, 1,400' x 1,250', overall
Support area, 900' x 700' overall, 31 bldgs	Probable support area, 700' x 700' overall; photography precludes accurate bldg count
Probable instrumentation area	Probable instrumentation area
Circular mound, 450' dia	Photography precludes identification
Circular pad (centered on mound), 90' dia	Photography precludes identification
Control area	Probable Control area
Fence, 750' x 700'	Photography precludes identification
3 bldgs	4-6 bldgs nearby
Concrete pad, 40' dia	Photography precludes identification
3. Communications	3. Probable Communications
4 rhombic antennas	8-10 clearings one mile N of rectangular area possibly containing rhombics

accompanying table). The site consists of a circular clearing in the woods and an adjacent rectangular clearing (see Figure 3). The circular clearing has approximately the same diameter as the fence enclosing the phase-measuring station at the Sary Shagan FLIM FLAM station. Other features which can be identified within the circular clearing correspond in size and layout with features at the Sary Shagan station. These consist of a circular road and an off-center structure with an access road.

The rectangular clearing is approximately 1,400 by 1,250 feet. It contains four to six buildings, at least two probable towers or masts, and a probable support area. The clearing is large enough to contain the support area, control area, and probable instrumentation area at Sary Shagan. Although there is no evidence of the presence of rhombic antennas within the rectangular clearing, a probable antenna farm, approximately one nm

to the north, contains a probable control building surrounded by a ring of clearings which may be occupied by eight to ten antennas. These clearings resemble those observed in other areas on better-quality photography which were occupied by rhombic antennas. The close proximity of this probable antenna farm suggests that it may be utilized by the probable FLIM FLAM station.

REFERENCES

25X1

MAPS or CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0197-17A, rev Jun 58, scale 1:200,000 (S)

DOCUMENTS

1. NSA. [redacted] Location of Tracking Installations in Support of the Tyura Tam Missile Test Range, 16 Feb 59 [redacted] 25X1

NSA. [redacted] The Use and Characteristics of FLIM FLAM: A Soviet Missile/Satellite Tracking Data Transmission System, 11 May 59 [redacted]

NSA. [redacted] FLIM FLAM Track of Soviet ICBM Launched on 25 Mar 59, 11 May 59 [redacted] 25X1

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X1 NSA. [redacted] Indication That an Additional FLIM FLAM Tracking Site Exists at or Near Khutor, Kamchatka, 29 Sep 59 [redacted]

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 18 July 59, 1 Dec 59 [redacted] 25X1 25X1

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 30 July 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Correction No 1. Ballistic Trajectory of Soviet ICBM Launched on 30 Jul 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 13 Aug 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 18 Sep 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Correction No 1. Ballistic Trajectory of Soviet ICBM Launched on 18 Sep 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 25 Oct 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Ballistic Trajectory of Soviet ICBM Launched on 20 Nov 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Correction No 1. Ballistic Trajectory of Soviet ICBM Launched on 20 Nov 59, 8 Dec 59 [redacted] 25X1

X1 NSA. [redacted] Additional FLIM FLAM Tracking Station Near Khutor, Located at Paratunka, Kamchatka, 9 Dec 59 [redacted] 25X1

2. CIA. PIC/JR-16/60, Location and Description of FLIM FLAM Station No 3, Lake Balkhash, USSR, Jul 60 [redacted] 25X1

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